

CONFIDENTIAL/SECURITY INFORMATION
CENTRAL INTELLIGENCE AGENCY
INFORMATION REPORT

COUNTRY Czechoslovakia

SUBJECT Cement Plants and Production/Data on Cement Tests

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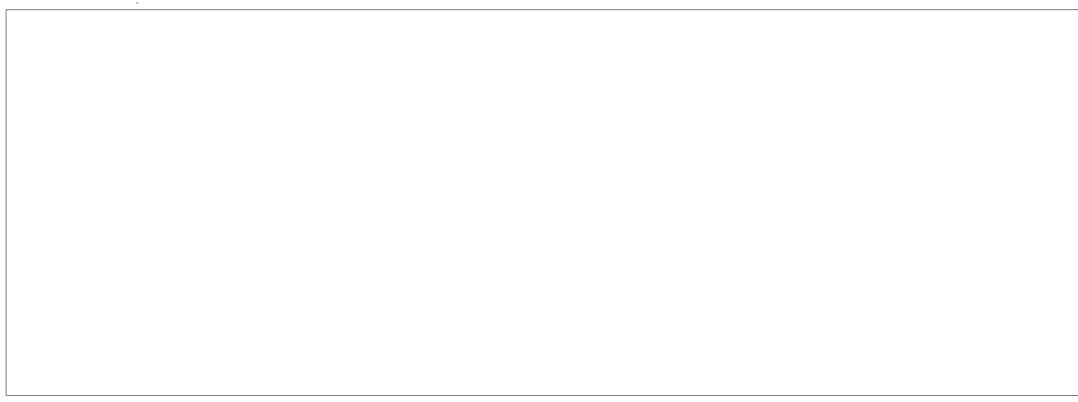
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(LISTED BELOW)

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REPORT NO. 50X1
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1. The production of cement in Czechoslovakia has been (and, probably, still is) on a very high level. The quality of cement produced in Czechoslovakia was higher than that produced in the majority of European countries. All the cement plants, without exception, have been nationalized.
2. Here is a list of all cement plants based on their former ownership prior to nationalization:
 - (a) Kralodvorska cementarna (Kraluv Dvur cement plant) is a joint-stock company in Prague. This company owns the cement plant in Kraluv Dvur near Beroun and another one in Cizkovice. Both plants work with rotary kilns. They produce natural portland cement, high-early-strength cement called "Standard", (zalizoportlan) (ferro-portland), ferro-portland cement, friable cement, and white portland cement called "Albesco".
 - (b) A portland cement plant in Radotin near Prague is owned by the firm of "Prastav", a joint-stock company in Prague. This plant has shaft furnaces with movable grates. It produces normal portland cement, high-early-strength portland cement called "Rekord", mixed cement ferro-portland, and friable cement.
 - (c) Podolska cementarna (Podol cement plant), a joint-stock company in Prague, owns a plant in Podol near Prague. The plant has shaft furnaces with movable grates. It produces normal portland cement, high-early-strength portland cement called "Podol-Special", and mixed slag-portland cement.

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- (d) Retenick cementarna (Retenici cement plant) is a joint-stock company. The plant is in Rednice. It has shaft furnaces with movable grates, and it produces normal portland cement, high-early-strength portland cement, and mixed cement called "Meteor".
- (e) Tovarna na portlandsky cement (Portland cement plant) Leo Czech a spol (and company) is in Brno - Malomerici. It has rotary kilns and produces normal portland cement, high-early-strength portland cement called "Super", and friable cement.
- (f) Stramberski-Vitkovicke cementarny (Stramberk - Vitkovice cement plants) is a joint-stock company in Moravske Ostrava - Vitkovice. It owns a cement plant in Stramberk which works with rotary kilns and a slag-portland cement plant in Vitkovice. These plants manufacture normal portland cement, high-early-strength portland cement called "slechtény (refined) cement", slag-portland cement, and mixed cement called "Siccifix-cement".
- (g) Kurovicka tovarna na portlandsky cement (Kurovice portland cement plant) Seilern a spol (and company) is located in Tlumacov. It manufactures portland cement in a shaft furnace with movable grates.
- (h) Slovenske tovarny na portlandsky cement (Slovak portland cement plants) Lietavska Lucka - Ladce, a joint-stock company, owns a plant in Lietavska Lucka and another one in Ladce. Both work with shaft furnaces with movable grates. They manufacture normal portland cement, high-early-strength portland cement, and slag-portland cement.
- (i) Tovarna na bauxitovy cement (Bauxite cement plant) in Ladce, a joint-stock company, owns a plant manufacturing aluminosilicate cements (slnuteho hlinitavého cementu) called "Bauximent v Ladci" (Bauximent in Ladce).
- (j) Hornosrnske cementarny a kamenolomy (cement plants and quarries) is a joint-stock company in Hornie Srnie. The plant is located in Hornie Srnie and has automatic shaft furnaces with movable grates. It produces normal portland cement, high-early-strength portland cement called "Vlara", friable cement, and mixed cement called "Yura".
- (k) "Union" tovarna na portlandsky cement ("Union" portland cement plant), a joint-stock company in Bratislava, owns a plant in Stupava equipped with rotary kilns. It produces normal portland cement, high-early-strength portland cement called "Robur", and friable cement.
3. In Czechoslovakia, quick-drying portland cement (corresponding to State Specifications 1091, paragraph 17) is used for reinforced concrete construction. In addition to portland cement, it is permissible to use blast-furnace cement and reinforced portland.
4. Reinforced portland cement must contain a minimum of 70 per cent portland cement by weight and a maximum of 30 per cent basic blast-furnace slag. Impurities must not exceed 3 per cent of the total weight.
5. Blast-furnace cement must contain a minimum of 20 per cent portland cement and a maximum of 80 per cent basic blast-furnace slag. Impurities must not exceed 3 per cent of the total weight.

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6. The table below shows the results of tests conducted with portland cement, reinforced portland, and blast-furnace cements:

TYPE OF CEMENT	STRENGTH							
	Compression in KG/SQ.CM				Tensile Strength in KG/SQ.CM			
	after 2 days	after 7 days	after 28 days		after 2 days	after 7 days	after 28 days	
			in water	alternately dipped			in water	alternately dipped
Royal Portland	110	213.8	342.4	353.6	14.1	20.6	23.9	34.2
	-	314.6	452.4	526.0	-	25.6	27.6	38.2
	-	150.0	260.0	281.6	-	19.5	26.0	25.6
Royal Reinforced Portland	-	161.2	276.2	312.4	-	21.4	29.0	35.6
	-	196.6	341.4	364.6	-	22.6	32.5	33.3
	-	162.6	288.4	313.6	-	20.6	28.6	26.5
Blast-Furnace	-	290.8	340.0	381.6	-	32.2	33.1	29.9
	-	212.2	354.2	409.6	-	24.8	32.7	28.6

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